

The mysterious discovery of Roberts' body

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We describe a new family of 3-dimensional bodies of constant width obtained from the Reuleaux tetrahedron by replacing a small neighborhood of all six edges with sections of an envelope of spheres. This family contains, in particular, the two Meissner solids and a body with tetrahedral symmetry that we have called Robert's body. We know that Robert's body is not the Minkowski sum of the two Meissner bodies of constant width since they differ in one of their sections.

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